

184208

Brake Pressure Modulator Valve Replacement

Removal Procedure

Caution: Refer to *Battery Disconnect Caution in Cautions and Notices.*

1. Disconnect the negative battery cable.
2. Remove the two fuse block mounting bolts from the EBCM bracket.
3. Disconnect the electrical connector from the combination valve (12).
4. Remove the front and rear brake pipes (from master cylinder) from the combination valve.
5. Remove the right front, left front and rear brake pipes from the tube adapters (6).
6. Remove the four 10 mm bolts (9) that fasten the EHCU bracket (7) to the vehicle mounting bracket.
7. Lift the EHCU partially out of the engine compartment.
8. Disconnect the four electrical connectors from EBCM (2).
9. Fully remove the EHCU from the vehicle.
10. Remove the three Allen bolts (11) from the combination valve (12).
11. Remove the combination valve (12).

Important: Do not reuse the transfer tubes. Always install new transfer tubes.

12. Remove the two transfer tubes (13).
13. Remove the three 13 mm bolts (9) that fasten the bracket to the BPMV.
14. Remove the four T-25 Torx® bolts (1) from the EBCM.

Important: Do not use a tool to pry the EBCM or the BPMV. Excessive force will damage the EBCM.

15. Remove the EBCM (2) from the BPMV (4). Removal may require a light amount of force.

Installation Procedure

1. Install the new transfer tubes (13) into the combination valve into the combination valve (9).
2. Install the combination valve onto the BPMV (4).

Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the three Allen bolts (11) that fasten the combination valve (12) to the BPMV (4).

Tighten

Tighten the three Allen bolts to 8 N·m (6 lb ft), then to 16 N·m (12 lb ft).

Important: Do not reuse the old EBCM mounting bolts. Always install new mounting bolts with the new EBCM.

Important: Do not use RTV or any other type of sealant on the EBCM gasket or mating surfaces.

4. Install the EBCM gasket (3) onto the BPMV (4).
5. Ensure gasket alignment is correct.
6. Install EBCM (2) onto BPMV (4).
7. Install the four new EBCM bolts (1).

Tighten

Tighten the four bolts to 5 N·m (39 lb. in.) in an X-pattern.

8. Install EHCUC (4) to bracket.
9. Install the three BPMV (4) to bracket retaining bolts.

Tighten

Tighten the three bolts to 9 N·m (7 lb ft).

10. Connect the four electrical connectors to the EBCM.
11. Install the EHCUC to the vehicle frame.

Tighten

Tighten the three bolts to 25 N·m (20 lb ft).

12. Install the right front, left front and rear brake pipes to the tube adapters.

Tighten

Tighten the three brake pipe fittings to 29 N·m (22 lb ft).

13. Install the front and rear brake pipes (from master cylinder) to the combination valve.

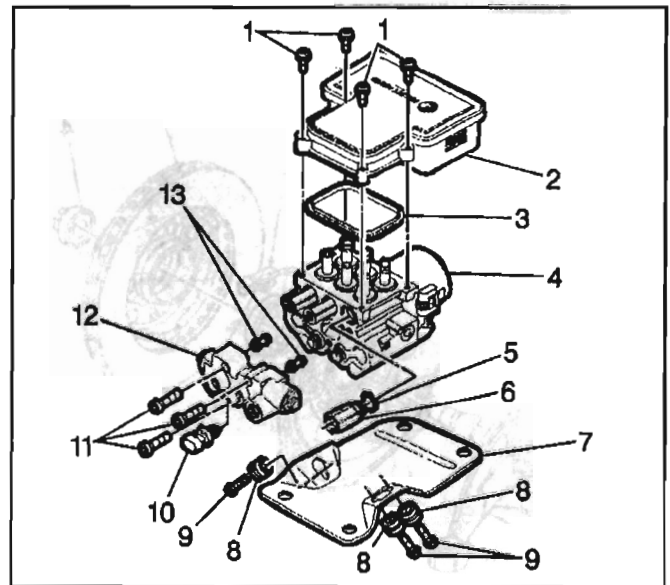
Tighten

Tighten the three brake pipe fittings to 29 N·m (22 lb ft).

14. Connect the electrical connector to the combination valve.
15. Install the two fuse block mounting bolts from the EBCM bracket.
16. Connect the negative battery cable.

Important: Verify that the combination valve metering rod is depressed during bleeding.

17. Bleed the brake system. Refer to *ABS Bleed Procedure*.
18. Return to Diagnostic System Check.



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